



# Suppliers Partnership for the Environment (SP)

## Overview Presentation

*January 2012*



# Suppliers Partnership for the Environment

## Vision:

Association of automobile OEMs and their suppliers working in collaboration with the US EPA and other governmental entities to identify and implement creative projects and programs that will advance environmental sustainability while providing economic value to the automotive supply chain through strategic action and engagement.

## Mission:

A forum for large, medium and small service and product vendors and vehicle manufacturers to develop and share tools, information, knowledge, good practices and technical support to ensure that the suppliers' products and their processes provide environmental improvement and cost savings to SP participants.



# 2012 SP Members / Liaisons





# Value of SP Membership

- Provides a common auto sector approach to greening the supply chain.
- Provides a forum for companies to work together to share “good practices” through work groups to address specific issues.
- Supports four member led workgroups that address issues identified by the membership.
- Quarterly meetings of SP provide opportunities for members to network, to learn about issues and activities impacting the environment and the automobile supply chain and identify areas for action by SP.
- SP is constantly working to identify new, innovative and more environmentally sustainable ways to enhance the viability and competitiveness of the automobile industry through the supply chain.



# SP Work Groups

- **Chemical Issues:** Creating Materials Health & Environmental Assessment Strategy (MAS) to develop a common screening process for OEMs and their suppliers. Addressing global chemical regulations that are impacting product/material engineering and manufacturing.
- **Energy and Water:** Sponsoring and supporting ongoing collection and dissemination of information, discussions and action between automobile OEMs, their suppliers, the utility industry and government entities, on energy and water issues affecting the operations of companies in the automobile supply chain.
- **Materials Efficiency:** Developing and deploying environmental technologies and programs in order to reduce environmental impacts, gain financial value, as well as promote environmental sustainability.
- **Technology and Networking:** Connecting suppliers that have unique, environmentally responsible technologies with OEMs and Tier 1 Suppliers. Supporting a forum for Tier 2 and Tier 3 suppliers to the industry so that their issues and ideas can be addressed by OEMs and Tier 1 supplier companies.



# Chemical Issues Work Group

*Goal:*

Forum for discussing emerging chemical issues of potential impact to the automotive manufacturers and supply chain; creating a Materials Assessment Process to address and assess chemical issues in the interior of an automobile as well as addressing chemical impacts outside the vehicle, such as wear parts.



# SP MAS Development Team





# Drivers: Regulatory Action

## **REACH (EU Chemicals Directive)**

- **Requires companies to process risk assessments on many more of their products, including articles**

## **Consumer Product Safety Improvement Act (US)**

- **Drives increased chemical tracking and analysis in the supply chain**

## **California Green Chemicals Rule and Other State Product Chemicals Regulations (US)**

- **Requires flexible and efficient systems to respond to a range of stakeholders reporting requirements**

## **Toxic Substance Control Act (US)**

- **Bills for reauthorization introduced in 2011**





# MAS - The Approach

The SP MAS is structured into 4 Phases:

- **Phase 1** – Principles and preliminary project scope
- **Phase 2** – Develop common risk assessment parameters and identify appropriate tools for human exposure in vehicle interiors
- **Phase 3** – Build upon Phase 2 to include environmental risks from vehicle wear debris (brakes, tires) or other exterior materials
- **Phase 4** – Build upon Phase 3 to include health and environmental risks from vehicle end-of-life activities



# Energy and Water Work Group

- Vision: Provide a forum for energy and water utility managers from the automobile supply chain to:
  - Discuss and collaborate on regulatory and policy issues impacting the automobile supply chain relating to energy and water; and,
  - Collect, disseminate, assess and/or educate on available tools and resources to assist companies in improving the energy and water efficiency of the automobile industry.
- Mission: Sponsor and support ongoing collection and dissemination of information, discussions and action between automobile OEMs, their suppliers, and government entities, on energy and water issues affecting the operations of companies in the automobile supply chain.

Co-chairs:            Mark Werthman, Chrysler Group LLC  
                              Rahul Naik, ARCADIS



### Water

- Reduced consumption by 40% and identified \$250,000 of associated savings.

### Steam/Natural Gas

- 13% natural gas savings from February to May 2007 over same time period in 2006.

### Lighting/Electricity

- Electricity savings of 3% or 5,000 kWh in 2008



# Materials Efficiency Work Group

*Goal:* Developing and deploying environmental technologies and programs in order to reduce environmental impacts, gain financial value, as well as promote environmental sustainability.

*Chair:* John Bradburn, GM



# Success Stories – Federal-Mogul

## Quiet Shield G Project

- Developed a process to convert Asian/ U.S cardboard and recycled textile fibers into a non-woven substrate for use as an acoustic material.

### *Objectives:*

- To reduce waste in the assembly plants and turn it back into usable parts in the vehicle.
- Final non-woven substrate to contain 25-75% Cardboard.
- Material must meet technical, commercial, and economic targets

### *What's Next:*

- Working with GM on the Volt and Epsilon II platform.
- Continuing to explore use of alternative materials
- Exploring incorporation of additional processes

# Success Stories – Member Collaboration



**GM**

**Installs Parts in  
Chevrolet Volt**



**GDC Inc.**

**Produces Volt  
Components**



**Mobile Fluid  
Recovery**

**Extracts Oil and  
Wastewater**



**Heritage  
Environmental  
Collects Booms**



# Value Statement

“Our companies' ability to compete has been greatly improved by the opportunity to be part of SP. We have taken the environmental impacts of our company and learned to address them like all the other traditional elements that impact our business. The result has been tremendous savings to the company, improved employee empowerment and a significant improvement to our environmental footprint. By working closely with GM, Lear and the other partners, BAE has become more competitive and truly developed a partnership with the "big guys." That kind of partnership was almost impossible in the past. Where else can you get the clout of the OEM's on the budget of a small supplier.”

Mark Doetsch, Vice President – Quality  
B.A.E. Industries, Inc.



# Technology and Networking Group

*Goal:* Providing a forum through which member companies share opportunities and processes for SP's Tier II and Tier III companies to communicate directly and effectively with the OEMs and Tier I suppliers in the organization and automotive industry.

*Co-Chairs:* David O’Ryan, Asset Recovery & Management Gr.  
Russell Brynolf, FTS Technologies



# Success Stories: FTS Technologies

## GM Eliminates Solvent from Suppliers' Paint Process

Adhesion alternative is energy efficient and practically emission free

2011-08-23

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DETROIT – General Motors is introducing a flame treatment technology that lets paint stick to plastic vehicle parts like instrument and door panels without using primers that contain solvents and can foul the air.

The use of solvents in paint primers is an industry-wide challenge. GM is committed to reducing emissions throughout its manufacturing operations and supply chain, so it manages traditional solvents through recycling, conversion to energy and superheating the gases to break them down. However, these are energy-consuming, costly processes.

This flame treatment technology instead uses an energy-efficient, robotic system to create a molecular change to the surface of the plastic, making it bond with the paint. The process eliminates the need for an adhesion-promoting primer.

GM evaluated the new technology as a total business case. Not only does it improve efficiency since it's faster than spraying primer, but the capital expense pays for itself in less than four months. It's being used on the Chevrolet [Cruze](#), [Sonic](#), and [Volt](#).

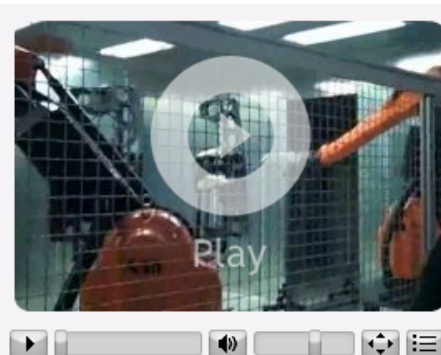
By using it on the Cruze, for example, GM suppliers:

- Reduced solid and liquid waste (filters, cleaners, solvents and coatings) from 48 tons a year to less than one.
- Decreased air pollutants from 810 tons a year to 80 tons a year.
- Eliminated landfill waste like paint sludge and painted scrap material from 25 tons to nearly zero.

GM learned about this technology through [Suppliers Partnership for the Environment](#), a working group of U.S. automakers, their suppliers and the Environmental Protection Agency. Whitmore Lake, Mich.-based supplier [FTS Technologies](#) was striving to get its flame treatment technology implemented and approached John Bradburn, GM's manager of waste-reduction efforts.



### VIDEO



[Click here for more video options](#)

### CONTACTS



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# Categorizing SP Member Companies & Technologies

## MEMBER COMPANIES

Click the tabs to browse SP member companies by their areas of expertise. Clicking

if your company does not have a profile link listed below, please complete the SP (kmahoney@navista.net).

[All Members](#)
[Chemicals](#)
[Environment/Energy](#)
[OEMs](#)
[Recycling](#)
[Partners](#)

**Technology/Equipment**



**2V Industries, Inc.**  
Established 1968



**AGS Technologies**



**fts Technologies**  
ATma<sup>PTM</sup> Surface Treatment Technology


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**GAGE**

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SUPPLIERS PARTNERSHIP FOR THE ENVIRONMENT™
~ SP Member Company Fact Sheet ~

COMPANY LOGO	
COMPANY NAME	<b>FTS Technologies</b>
VISION	<p>To develop opportunities through collaboration and partnership with other companies, strategies for the implementation of the FTS cost effective, energy reducing clean air technology named ATmaP®.</p> <p>To educate the automotive plastics paint sector that process technology advances are an effective way of increasing or maintaining a "bottom line" in the business.</p> <p>To be an active participant in Environmental initiatives and actively promote Green manufacturing technologies through leadership and example.</p> <p>To maintain our market leadership position by maintaining our commitment to our customers and proving each day our desire to satisfy our customer needs through innovation, knowledge and skills.</p> <p>To consistently and effectively communicate our ethos of "providing a process solution not just a piece of equipment".</p>
SP CONTACTS	<p>Russell Brynolf – President and Chief Executive Officer, FTS Group of Companies. Office Phone – (1) 734 449 5100 Office Fax – (1) 734 449 5101 Email – <a href="mailto:rbrynolf@fsttechnologies.com">rbrynolf@fsttechnologies.com</a></p> <p>Jamie Brynolf – Business Manager Office Phone – (1) 734 449 5100 Office fax – (1) 734 449 5101 Email – <a href="mailto:jbrynolf@fsttechnologies.com">jbrynolf@fsttechnologies.com</a></p>
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# Value Statement

“The concept of having suppliers align their goals and strategies with their customers is right on target. Until now, it has been extremely difficult for suppliers, particularly smaller suppliers, to get an accurate understanding of what OEMs were seeking relative to environmental initiatives. The paradigm shift we see today exists when individuals and organizations, such as Chrysler, see the value of collaborating with large and small companies such as Chemico Systems. Our experience participating in this organization has been tremendous.”

Leon C. Richardson, President and CEO  
Chemico Systems, Inc.



# CEC North American Auto Supply Chain Project

- SP is working with representatives in US, Canada and Mexico on a Commission for Environmental Cooperation (CEC) sponsored project to **“Improve the economic and environmental performance of the North American Automotive Industry Supply Chain”**.
- Re-engages key automotive companies for the development and implementation of green supply-chain programs across North America.
- Supports the organization and expansion of SP-like activities in Canada and Mexico in 2012 and establishes a forum for tri-national collaboration on greening the automotive supply chain.



# For More Information on SP

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